

IN THE CLAIMS:

1. (Currently amended) A method for transforming gene expression signals, the method comprising the steps of:

determining a plurality of gene expression signals for a gene; and

5 deriving a transformation that ~~creates~~transforms, within a selected interval, the plurality of gene expression signals into a uniform distribution of transformed gene expression signals for the gene, ~~and wherein each gene expression signal is converted by the transformation into a transformed gene expression signal in the uniform distribution, and wherein the uniform distribution of transformed gene expression signals may be used to determine gene expression~~
10 patterns.

2. (Original) The method of claim 1, further comprising the step of applying the transformation to an additional gene expression signal.

15 3. (Currently amended) The method of claim 1, wherein the step of deriving comprises the steps of:

determining a function that approximates a distribution of the plurality of gene expression signals for the gene; and

20 using the function to create the transformation, ~~wherein the transformation creates a uniform probability distribution of the transformed gene expression signals.~~

4. (Canceled)

5. (Canceled)

25 6. (Canceled)

7. (Canceled)

8. (Canceled)

5 9. (Canceled)

10. (Canceled)

11. (Canceled)

10

12. (Canceled)

13. (Canceled)

15 14. (Canceled)

15. (Canceled)

16. (Canceled)

20

17. (Currently amended) A system comprising:
a memory that stores computer-readable code; and
a processor operatively coupled to the memory, the processor configured to
implement the computer-readable code, the computer-readable code configured to:
25 determine a plurality of gene expression signals for a gene; and
derive a transformation that ~~creates~~transforms, within a selected interval, the
plurality of gene expression signals into a uniform distribution of transformed gene expression
signals for the gene, and wherein each gene expression signal is converted by the transformation

into a transformed gene expression signal in the uniform distribution, and wherein the uniform distribution of transformed gene expression signals may be used to determine gene expression patterns.

5 18. (Original) The system of claim 17, wherein the computer-readable code is further configured to apply the transformation to an additional gene expression signal.

19. (Currently amended) The system of claim 17, wherein the computer-readable code is further configured, during the step of deriving, to perform the steps of:

10 determine a function that approximates a distribution of the plurality of gene expression signals for the gene; and

use the function to create the transformation, ~~wherein the transformation creates a uniform probability distribution of the transformed gene expression signals.~~

15 20. (Canceled)

21. (Canceled)

22. (Canceled)

20 23. (Currently amended) An article of manufacture comprising:
a computer readable medium having computer readable code means embodied thereon, the computer readable program code means comprising:

a step to determine a plurality of gene expression signals for a gene; and

25 a step to derive a transformation that ~~creates~~transforms, within a selected interval, the plurality of gene expression signals into a uniform distribution of transformed gene expression signals for the gene, and wherein each gene expression signal is converted by the transformation into a transformed gene expression signal in the uniform distribution, and

wherein the uniform distribution of transformed gene expression signals may be used to determine gene expression patterns.

24. (Original) The article of manufacture of claim 23, wherein the computer-readable code means further comprises a step to apply the transformation to an additional gene expression signal.

25. (Currently amended) The article of manufacture of claim 23, wherein the computer-readable code means is further configured, during the step of deriving, to perform:

a step to determine a function that approximates a distribution of the plurality of gene expression signals for the gene; and

a step to use the function to create the transformation, ~~wherein the transformation creates a uniform probability distribution of the transformed gene expression signals.~~

26. (Canceled)

27. (Canceled)

28. (Canceled)